

# How can I use the IMCONJUGATE function in Google Sheets?

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## RECOMMENDED CITATION

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The IMCONJUGATE function in Google Sheets allows users to find the complex conjugate of a given complex number. This function takes the complex number as its input and returns the corresponding conjugate. This can be useful in mathematical and scientific calculations, as well as in creating complex formulas and equations within a spreadsheet. To use the IMCONJUGATE function, simply enter the complex number as the argument within the function and the conjugate will be displayed. This feature helps streamline and simplify complex calculations, making it a valuable tool for users of Google Sheets.

## IMCONJUGATE

Returns the complex conjugate of a number.

### Sample Usage

```
IMCONJUGATE ( "3+4i" )
```

```
IMCONJUGATE ( "-2i" )
```

### Syntax

```
IMCONJUGATE ( number )
```

**number** - The complex number to calculate the conjugate for.

### Notes

The complex conjugate is defined as follows:

$$\overline{a + bi} = a - bi$$

### See also

**COMPLEX**: The COMPLEX function creates a complex number, given real and imaginary coefficients.**IMREAL**: Returns the real coefficient of a complex number.**IMAGINARY**: Returns the imaginary coefficient of a complex number.

### Examples

| 1 | A                                    | B             |
|---|--------------------------------------|---------------|
| 2 | <b>Formula</b>                       | <b>Result</b> |
| 3 | =IMCONJUGATE ("3+4i")                | 3-4i          |
| 4 | =IMCONJUGATE (COMPLEX (-2, -5, "j")) | -2+5j         |

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